ACRONYMS USED IN EMISSION MEASUREMENT DISCUSSIONS AND REGULATIONS

- AA(S) Atomic absorption (spectroscopy) analytical technique for metal ions.
- ACME Accreditation and Certification for the Measurement of Emissions EPA developed program for accreditation of emission teesting companies and certification of source testing personnel on a national basis.
- AISI American Iron and Steel Institute.
- AIRS Aerometric Information Retrieval System database for air pollution measurement data.
- ANSI American National Standards Institute.
- APTI Air Pollution Training Institute organization in OAQPS responsible for providing training for implementing air pollution regulations.
- AP-42 The document codifying the emission factors for stationary sources, available from the Emission Inventory Branch in OAQPS.
- AQMD Air Quality Management Division organization in OAQPS responsible for requirements and guidance for developing SIPs.
- ARD Acid Rain Division organization in EPA responsible for implementing the acid rain regulations (40 CFR Part 75).
- AREAL Atmospheric Research and Exposure Assessment Laboratory the part of the EPA's Office for Research and Development responsible for research on air pollution test methods.
- ASME American Society of Mechanical Engineers a professional organization that publishes guidance and protocols for evaluating process operation, efficiencies, and emission measurements among other industrial support activities.
- ASTM American Society for Testing and Materials a professional organization that publishes standard methods and performance criteria often incorporated by reference in EPA regulations and methods.

- AWMA Air and Waste Management Association a professional organization that coordinates technical information dissemination on environmental issues through workshops, conferences, publications, and other outreach activities.
- BACT Best available control technology the basis for establishing emission limits for major existing sources of hazardous compounds.
- BBS Bulletin Board System functional unit of the OAQPS Technology Transfer Network (TTN).
- BIF Boilers and industrial furnaces source category burning hazardous waste materials covered by OSW regulations.
- BLIS BACT/LAER Information System (one BBS of TTN).
- Btu British thermal unit measurement unit of heat often used in emission standards, e.g., lb/MMBtu or pounds of emission per million Btu.
- CAAA Clean Air Act Amendments of 1990.
- CEMS Continuous emission monitoring system the equipment for the sampling, analysis, and data reduction of gaseous emissions measurements on a continuous basis.
- CERMS Continuous emission rate monitoring system the equipment for the sampling, analysis, and data reduction of stack emission rate (e.g., lb/hr) on a continuous basis.
- CFR Code of Federal Regulations codification of all Federal regulations divided by titles and parts. Title 40 contains essentially all of the environmental regulations.
- COMS Continuous opacity monitoring system the equipment for the sampling, analysis, and data reduction of stack opacity measurements on a continuous basis.
- CMA Chemical Manufacturers Association.
- CPB Chemicals and Petroleum Branch operations and emissions data collection branch in ESD.
- CPMS Continuous parameter monitoring system the equipment for measurement of a control device or process

operating parameter or other conditions to correlate with source emissions.

- CPM Condensible particulate matter as measured with Method 202 involving analysis of back half of Method 5 or 17 sampling train.
- CRM Certified reference material an audit material, usually calibration gas certified by the National Institute for Standards and Technology to be of known quantity or value.
- CTC Control Technology Center EPA organization providing technical assistance on the selection, operation, and design of air pollution control equipment (one BBS of TTN).
- CVAAS Cold vapor atomic absorption spectroscopy analytical technique for mercury and other metal ions.
- DAR Data assessment report report for the responsible enforcement agency prepared by regulated sources that quantifies emission status, usually quarterly.
- DQO Data quality objectives.
- ECD Electron capture detector analytical technique used in gas chromatography.
- EIB Emission Inventory Branch TSD organization responsible for publishing AP-42.
- ELCD Electroconductivity detector (Hall detector) analytical technique used in gas chromatography.
- EMB Emission Measurement Branch About 30 people in OAQPS responsible for developing and publishing emission test methods, collecting and evaluating emission data in support of regulatory development, and providing technical guidance on the application of test methods.
- EML Emission Measurement Laboratory location in RTP for the EMB.
- EMMC Environmental Monitoring Management Council an EPA workgroup involving all of the program offices in evaluating the Agency's measurement procedures and research programs.
- EMMI Environmental Monitoring and Measurements Index a

- personal computer based information file of all the EPA methods used for environmental measurements.
- EMRD Enhanced Monitoring Reference Document background guidance document providing support for implementing the enhanced monitoring and compliance certification regulations.
- EMTIC Emission Measurement Technical Information Center the information center in EPA responsible for providing guidance and technical assistance for stationary source emission test methods.
- EPA Environmental Protection Agency, U. S. Government.
- EPRI Electric Power Research Institute research organization representing the utility industry interests.
- ESD Emission Standards Division organization in OAQPS responsible for publishing the stationary source emission regulations.
- ETO Ethylene oxide.
- FCCU Fluid catalytic cracking unit device used in SOCMI and petroleum refining.
- FGD Flue gas desulfurization SOx emission control device often used at fossil fuel fired utilities.
- FIA or FID Flame ionization analyzer or detector analytical technique for organic compounds for total organic compounds or as the analytical technique with gas chromatographic separation.
- FPD Flame photometric detector analytical detector for organic compounds.
- FR Federal Register publication vehicle for Federal regulations printed daily.
- FTIR Fourier transform infrared.
- GC Gas chromatography.
- GC/MS Gas chromatography/mass spectrometry Highly specific analytical technique used for organic compounds.
- GFAA(S) Graphite furnace atomic absorption (spectroscopy) -

analytical method for metal ions.

- GFC Gas filter correlation analytical technique usually applied in the IR for TRS.
- HAPs Hazardous air pollutants compounds listed in Title III of the 1990 CAAA as the major air toxic pollutants.
- HPLC High performance liquid chromatography.
- HRGC/HRMS High resolution gas chromatography/high resolution mass spectrometry highly sensitive analytical technique for dioxin and furans.
- HON Hazardous Organic National Emission Standard for Hazardous Air Pollutants a regulation in Title 40, Part 63, of the CFR addressing the control of hazardous organic emission from some 40 processes in the synthetic organic chemical manufacturing industry.
- HWI Hazardous waste incinerator.
- ICE Internal combustion engine.
- ICAP Inductively-coupled argon plasmography analytical
 technique for metal ions.
- IPA Isopropyl alcohol.
- IR Infrared radiation range.
- ISB Industrial Studies Branch operations and emissions data collection branch in ESD.
- ISO International Standards Organization Multinational organization that develops and publishes measurement criteria and performance standards.
- LAER Lowest achievable emission rate basis for HAP emission limits for existing sources under CAAA.
- LUST Leaking underground storage tanks.

- MACT Maximum achievable control technology the basis for establishing emission limits for major new sources of hazardous compounds subject to rules under CFR Title 40, Part 63.
- MM5 Modified Method 5 extractive adsorbing emission sampling train for the measurement of volatile organic compounds, usually toxic or hazardous compounds, with boiling points over about 130°C. Analysis is by GC/MS. Called Method 0010 in SW-846; also labeled semi-VOST method.
- MS Mass spectrometry highly specific analytical method for organic and inorganic compounds.
- MWC Municipal waste combustor.
- MWI Medical waste incinerator.
- NAAQS National Ambient Air Quality Standard.
- NCASI National Council for Air and Stream Improvement research organization supporting environmental efforts for the pulp and paper industry.
- NDIR Nondispersive infrared spectroscopy narrow band infrared absorption.
- NESCAUM Northeast States for Coordinated Air Use Management organization representing state environmental agencies from the Northeast U.S.
- NESHAP National Emission Standard for Hazardous Air Pollutants regulations found in Part 61 and 63 of Title 40 of the CFR.
- NIST National Institute for Standards and Technology Federal organization responsible for evaluating and setting performance and design standards for measurements (formerly NBS).
- NMOC Nonmethane organic compounds volatile organic compounds other than methane.
- NOx Oxides of nitrogen.
- NRDC Natural Resources Defense Council.
- NSPS New Source Performance Standards regulations found in Part 60, Title 40 of the CFR.

- NTIS National Technical Information Service publication center for EPA research documents in Cincinnati.
- NTRM NIST traceable reference material.
- OAQPS Office of Air Quality Planning and Standards about 700 EPA people responsible for developing, publishing, and providing guidance for implementation of air pollution regulations, both ambient air quality standards and stationary source emission standards.
- OMB Office of Management and Budget, U. S. Government.
- OMS Office of Mobile Sources.
- OPM Open path monitoring system (long path monitoring).
- ORD Office of Research and Development program office of EPA responsible for research on pollution control, abatement, and measurement issues.
- OSHA Occupational Safety and Health Administration.
- OSW Office of Solid Waste the EPA organization responsible for publishing regulations addressing the handling and destruction of solid hazardous materials.
- OSWER Office of Solid Waste and Emergency Response.
- PAH Polyaromatic hydrocarbons long chain organic compounds often in particulate form at ambient conditions.
- PCB Polychlorinated biphenyl compounds includes dioxins and furans.
- PIC Product of incomplete combustion.
- PID Photoionization detector analytical technique used in conjunction with gas chromatography.
- PM Particulate matter defined by the test method used to collect and analyze the sample (e.g., Method 5 defines PM as material collected in the sample probe and on the filter at 250°F).
- PM10 Particulate matter less than 10 microns in aerodynamic diameter.
- POHC Principal organic hazardous constituents.

- POM Polycyclic organic matter includes benzene and related compounds often in particulate form at ambient conditions.
- PS Performance Specification performance criteria and procedures for evaluating a CEMS in the field installation, found in Federal regulations including Appendix B, Part 60, Title 40 of the CFR.
- QA/QC Quality assurance and quality control procedures and acceptance criteria established for the measurement data quality.
- RACT Reasonably available control technology.
- RCRA Resource Conservation and Recovery Act the regulatory act addressing hazardous waste handling and destruction.
- RECLAIM Regional Clean Air Incentives Market the emission control regulation involving the accumulation and potential trading of emission credits for SOx, NOx, and ROG sources in the SCAQMD of California.
- ROG Reactive organic gases.
- RTP Research Triangle Park, NC location for several EPA Program offices.
- SCAQMD South Coast Air Quality Management District.
- SCR Selective catalytic reduction NOx control technique.
- Semi-VOST Semivolatile organic compounds sampling train see MM5.
- SIP State Implementation Plan compilation of regulations developed by each State agency to implement air pollution control requirements.
- SMRB Source Methods Research Branch group in AREAL responsible for stationary source emission measurement methods research.
- SOCMI Synthetic organic chemical manufacturing industry.
- SOTDAT Source test data.
- SOx Oxides of sulfur.

- SRM Standard reference material (see CRM).
- SSCD Stationary Source Compliance Division organization in EPA responsible for providing guidance on the compliance issues for implementing stationary source air pollution regulations.
- SSEIS Stationary Source Emissions and Inventory System.
- STAPPA State and Territorial Air Pollution Program Administrators.
- SW-846 The designation for the OSW codification of sampling and analytical methods related to solid waste regulations and referenced in 40 CFR Part 266.
- TCDD Tetrachlorodibenzodioxin.
- TCDF Tetrachlorodibenzofuran.
- THC Total hydrocarbons (see VOC).
- TRS Total reduced sulfur compounds.
- TSAR Test methods storage and retrieval system library file system for the EMTIC technical document depository.
- TTE Temporary total enclosure a ventilated enclosure surrounding a line printing or coating operation and used in the evaluation of VOC emissions capture efficiency.
- TTN Technology Transfer Network computer network for electronic bulletin boards addressing OAQPS activities (telephone number 919/541-5247).
- TRIS Toxic chemical release inventory system.
- TSD Technical Support Division of OAQPS organizational location for EMB and EIB.
- TSDF Treatment, storage, and disposal facilities hazardous waste handling and disposal operations regulated by RCRA regulations.
- TSP Total suspended particulate matter.
- UARG Utility Air Regulatory Group utility industry policy support organization.

UV - Ultraviolet radiation range.

UV-DOAS - Ultraviolet dual optical absorption spectrometry.

- VEO Visible emission observation or observer opacity measurement according to Method 9, 40 CFR Part 60, Appendix A.
- VOC Volatile organic compounds.
- VOST Volatile organic sampling train extractive adsorbing emission sampling train for the measurement of volatile organic compounds, usually toxic or hazardous compounds, with boiling points up to about 130°C.

 Analysis of sample is by GC/MS. Entitled Method 0030 in SW-846.